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Professor Tohru Takenaka  
On the Occasion of His Retirement*

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## History of Publications

Term	Vol.	Title	Published
Jan., 1929- Dec., 1947	1-16	化学研究所講演集 (The Reports of the Institute for Chemical Research)	Indeterminately
April, 1993	—	10 Jahre Institut für chemische Forschung (化学研究所創立十周年記念号)	—
March, 1949- Dec., 1949	17-19	化研講演集 (The Reports of the Institute for Chemical Research)	Indeterminately
March, 1950- Sept., 1952	20-30	化学研究所報告 (Bulletin of the Institute for Chemical Research)	Quarterly
Dec., 1951	—	The Commemoration Volume for the Silver Jubilee (化学研究所創立二十五周年記念号)	—
Jan., 1953 onwards	31 No. 1-	Bulletin of the Institute for Chemical Research (化学研究所報告)	Bi-monthly
Nov., 1966	44 No. 6	Special Issue of the Commemoration of the Fortieth Anniversary (化学研究所創立四十周年記念号)	—
Nov., 1976	54 No. 6	Special Issue of the Commemoration of the Fiftieth Anniversary (化学研究所創立五十周年記念号)	—



竹 中 亨 教授

Professor Dr. Tohru Takenaka

## **Emeritus Professor Tohru Takenaka**

On the 31st of March, 1993, Dr. Tohru Takenaka, Head of the Research Division I of Interface Science of the Institute for Chemical Research, Kyoto University, retired after forty years of service to the University and was honored with title of Emeritus Professor of Kyoto University on the following day.

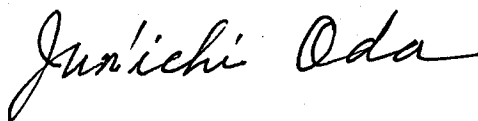
Dr. Takenaka was born in Okayama on 20th of July, 1929. Graduating from Hiroshima University of Literature and Science in March 1952, with his major in physics, he continued his studies on infrared spectroscopy as a graduate student at the Department of Physics, Kyoto University. He was appointed an instructor of the Institute for Chemical Research, under the supervision of Emeritus Professor R. Gotoh, Kyoto University on 1st May, 1953. After having received a doctoral degree from Kyoto University, he made a leave stay at the Department of Chemistry, the University of East Anglia from 1966 to 1967, and worked on infrared spectroscopy of adsorbed molecules in cooperation with professor N. Shepard. Dr. Takenaka was appointed associate professor in 1967 and full professor in 1971 to direct the Division I of Interface Science in the Institute.

Dr. Takenaka's professional career covers a wide range of interface phenomena, vibrational spectroscopy of organic thin films, and relation between molecular structure and physical property in the films. Dr. Takenaka is also widely recognized for his pioneering studies of spread monolayers on water and Langmuir-Brogett films on various kinds of solid substrates.

He gave lectures on advances in vibrational spectroscopy of thin films at the Graduate School of Science, Kyoto University, and supervised the dissertation work of a large number of graduate students. He also provided lectures on physical chemistry and interface science as visiting professor at several universities.

The sincere and warm personality of Dr. Takenaka has won him the respect of his friends, colleagues, and students. The collection of papers is dedicated to him to honour his long period of service on his retirement.

May, 1993



Jun'ichi Oda  
Director  
Institute for Chemical Research  
Kyoto University

## PROFESSOR TOHRU TAKENAKA - AN APPRECIATION

On the occasion of the appointment of Professor Tohru Takenaka as Emeritus Professor of Kyoto University, following his retirement after a most distinguished career of 41 years at Kyoto University, my wife and I wish to recall with much pleasure our friendship of long standing.

I remember our first meeting, the summer of 1962, during the memorable Molecular Spectroscopy Conference in Tokyo. It was a most successful Conference, both for scientific stimulates and for the invaluable social contacts it provided with outstanding Japanese scientists. If I recall correctly, Dr. Takenaka in collaboration with Dr. Rempei Gotoh gave two papers describing extensive research on the effects of polar groups on the C-H stretching vibrations of alkyl chains. It so happened that at the same time my research group at the National Research Council of Canada was also deeply involved with infrared spectra of alkyl chains, which we selectively deuterated at specific methyl or methylene groups. This began our long and continuing research association.

It is appropriate to note here, that the 1962 Conference, organized under the Chairmanship of Professor Sanichiro Mizushima has become a milestone in the history of molecular spectroscopy. It was the first truly international scientific conference in Japan following World War II. It brought together the world leaders in the field, also, from Japanese perspective, it provided for the initiation of a new generation of young Japanese spectroscopists, who subsequently became eminent on the world stage. Professor Tohru Takenaka is among these. On many subsequent occasions (1969, 1972, 1976, 1979-82, 1985-86) when we were in Japan, Professor Takenaka extended to us warm hospitality. Our visits with Professor Takenaka were not only for scientific discussions and exchanges of ideas, but also provided us with the opportunity to appreciate Japanese family values and to become acquainted with Japanese social customs and traditions. It was a pleasure for us to reciprocate during the summer of 1977, when Professor and Mrs. Takenaka spent several months in Ottawa as a Visiting Scientist with my research group at the National Research Council of Canada.

On our numerous visits to Professor Takenaka's laboratory at the Institute of Chemical Research, Uji Campus of Kyoto University, I found it most stimulating to take part in the Seminars, which were organized by Professor Takenaka's group. From these Seminars I was able to catch a glimpse of the warm and stimulating leadership he gave to his students and co-workers.

I have every confidence that in his new position as Professor Emeritus at Kyoto University and as Professor of Chemistry at Okayama Science University, Professor Takenaka will continue to display this tradition of leadership for the benefit of many more young scientists and that his research interests will continue to prosper.

My wife and I want to extend our very best wishes to Professor and Mrs. Takenaka for many happy and healthy years to enjoy the new life-style on which they are now embarking.

February 22nd, 1993



Dr. R. Norman Jones  
Guest Scientist  
Department of Chemistry  
University of Alberta  
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# CONTENTS

## Commemoration Issue Dedicated to Professor Tohru

### Takenaka on the Occasion of His Retirement

Masao Kiyama, Torayuki Honmyo, Tatuya Nakamura and Toshio Takada: Air Oxidation of an Iron Powder Dispersed in Aqueous Solutions of Sodium Hydroxide .....	75
Masao Kiyama, Torayuki Honmyo, Tatuya Nakamura, Mikio Takano and Toshio Takada: The Formation of $\alpha$ Fe <sub>2</sub> O <sub>3</sub> and BaFe <sub>12</sub> O <sub>19</sub> in the Presence of Iron (II) Hydroxide and Nitrates with or without Ba (II) .....	81
Yongchi Tian, Yongqiang Wang, Tao Huang, Guowen Li and Yingqiu Liang: Side-Chain-Controlled Aggregation of Amphiphilic Porphyrins in Thin Langmuir-Blodgett Films .....	86
Takeshi Mukoyama, Yoshiaki Ito, Masao Takahashi and Shuichi Emura: Energy Dependence of Multielectron Transitions in X-Ray Absorption of Atoms .....	94
Yoshiaki Ito, Takeshi Mukoyama, Kazuhiko Omote, Kazuaki Shimizu, Atsushi Nisawa, Takashi Shoji, Hikaru Terauchi and Scott Kuehner: Characterizaion of Mo/Si Multilayer by X-Rays .....	104
Koji Asami and Tetsuya Hanai: Observations and the Phenomenological Interpretation of Dielectric Relaxation due to Electrode Polarization .....	111
Junzo Umemura, Toshihide Kamata, Tohru Takenaka, Kenji Takehara, Kazuaki Isomura and Hiroshi Taniguchi: Raman Spectroscopic Study of Alternate Langmuir-Blodgett Films with Phyroelectric Efficiency .....	120
Takeshi Hasegawa, Sang Rae Park, Dong Won Kim, Haiwon Lee and Junzo Umemura: FT-IR Reflection-Absorption Spectra of Langmuir-Blodgett Films of Stearic Acid-d <sub>35</sub> on Silver .....	127
Yongliang Liu, Mirosław Antoni Czarnecki and Yukihiro Ozaki: Fourier Transform Near-Infrared Study of Dissociation and Thermodynamic Properties of N-Methylacetamide in a Carbon Tetrachloride Solution .....	133
Taisuke Nakanaga, Fumiyuki Ito and Harutoshi Takeo: Observation of the Infrared Spectrum in Supersonic Free Jet Expansion with Time Resolved FTIR Spectroscopy: The Spectrum of C <sub>2</sub> F <sub>6</sub> .....	140

Norihisa Mino, Kazufumi Ogawa and Motoyoshi Hatada: Analysis of Build-up Process of CA Multilayers on the Basis of IR Spectroscopic and Ellipsometric Data .....	148
Kozo Iwauchi: The ac Conductivity of $\text{LaCuO}_4$ .....	158
Motohisa Oobatake, Katsunosuke Machida and Soichi Hayashi: Molecular Dynamics Simulation of Infrared and Raman Spectra of Liquid Methane .....	166

## COMMUNICATION

R. Anthony Shaw and Henry H. Mantsch: Two Dimensional Infrared Spectroscopy...	173
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## NOTES

Kazuo Eda and Noriyuki Sotani: Blue Sodium Molybdate Hydrates Prepared under Reductive Condition .....	183
Emiko Okamura, Yasuki Matsumura and Tohru Takenaka: Effect of Wax Addition on Gel - to - Liquid-Crystalline Phase Transition of Palm-Oil as Studied by FT-IR Spectroscopy .....	188
Sang Rae Park, Dong Won Kim, Haiwon Lee and Junzo Umemura: FT-IR/ATR Spectra of Octadecyltrichlorosilane Adsorbed on Germanium Surface .....	193

## REVIEWS

Hatsuo Ishida: Application of Optical Theory to Quantitative Surface FT-IR with Emphasis on Molecular Depth Profiling .....	198
Hiroki Kurata, Seiji Isoda and Takashi Kobayashi: Electron Energy-Loss Spectroscopy for Organic Compounds .....	212
Marc Charland and Roger M. Leblanc: Photoacoustic Spectroscopy Applied to Biological Systems .....	226



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